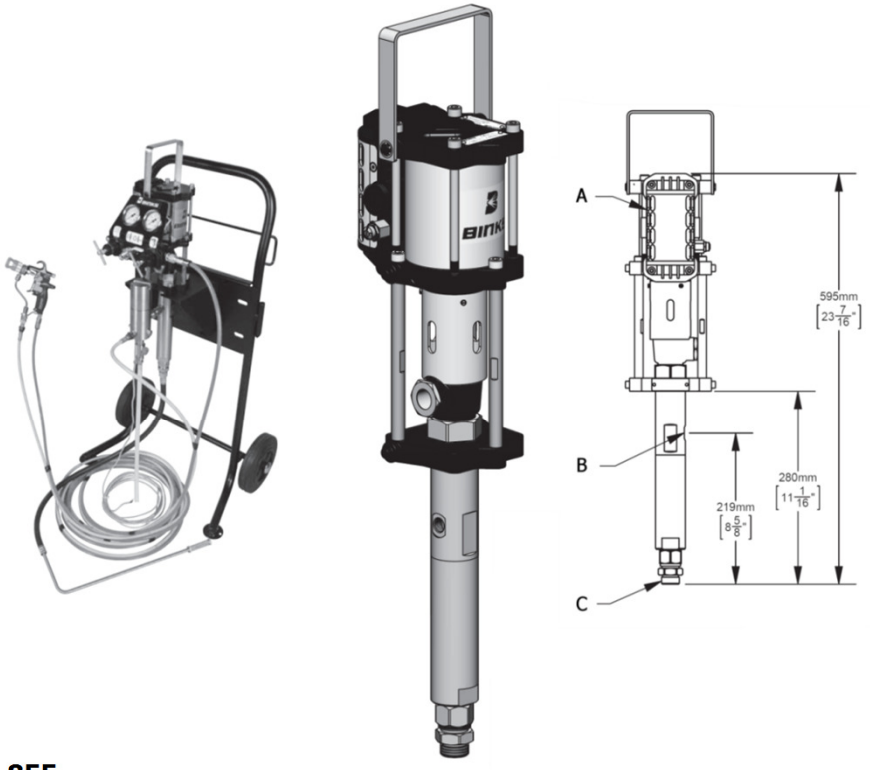
MX432 & MXL432 Pump & Packages

Models: MX432‡‡ & MXL432‡‡, ‡‡=PL (PTFE/Leather), PP (PTFE), PU (PTFE/UHMWPE), UC (U-Cups)



Patent 7,603,855.

	SPECIFICATION - Bare Pump	
	Ratio:	32:1
	Maximum air inlet pressure:	8 bar [116 psi]
	Maximum fluid pressure:	256 bar [3712 psi]
	Displacement per cycle:	24 cc [0.8 oz]
	Output @ 60 cycles/min:	1.4 l/m [0.4 US gal/m]
	Air consumption @ 20 cycles/min and 8 bar [116 psi] air inlet pressure:	147 l/m [5.2 SCFM]
	Maximum recommended continuous cycle rate (cycles/min):	20
A	Air inlet connection:	3/8" BSP(f)
C	Fluid inlet connection:	MX-3/4" NPS(m), MXL-1/2" NPS(m)
B	Fluid outlet connection:	M14x1.5(f)
	Sound level:	96.2 dB
	Weight:	7.5 kg [16.5 lbs]
	Wetted parts materials of construction:	Stainless Steel, Tunsten Carbide, Hard Chrome, PTFE, Polyethylene, Leather, Ceramic.

Product Description	MX4**, MXL4**, MX12**, MXL12**, MX190***, MX220***, MMX4**, MMX12**
This Product is designed for use with:	Solvent and Water based Materials
Suitable for use in hazardous area:	Zone 1 & 2
Protection Level:	II 2 G X IIB T4 (NB 0891)
Manufacturer:	Binks, Ringwood Road, Bournemouth, BH11 9LH. UK

EU Declaration of Conformity

We: Binks declare that the above product conforms with the Provisions of:

Machinery Directive 2006/42/EC

ATEX Directive 94/9/EC

by complying with the following statutory documents and harmonized standards:

EN ISO 12100: Safety of Machinery - General Principles for Design

EN ISO 4413: Hydraulic Fluid Power - General Rules and safety requirements

EN ISO 4414: Pneumatic Fluid Power - General Rules and safety requirements

EN 12621: Machinery for the supply and circulation of coating materials under pressure - Safety requirements

EN1127-1: Explosive atmospheres - Explosion prevention - Basic concepts

EN 13463-1: Non electrical equipment for use in potentially explosive atmospheres - Basic methods and requirements

EN 13463-5: Non electrical equipment for use in potentially explosive atmospheres - Protection by constructional safety

Providing all conditions of safe use stated within the product manuals have been complied with and that the final equipment into which this product is installed has been re-assessed as required, in accordance with essential health and safety requirements of the above standards, directives and statutory instruments and also installed in accordance with any applicable local codes of practice.

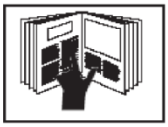
D Smith (General Manager)
1/11/12

In this part sheet, the words WARNING, CAUTION and NOTE are used to emphasize important safety information as follows:

WARNING	CAUTION	NOTE
Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage.	Hazards or unsafe practices which could result in minor personal injury, product or property damage	Important installation, operation or maintenance information.

WARNING

Read the following warnings before using this equipment.



READ THE MANUAL. Before operating finishing equipmrnt, read and understand all safety, operation and maintenance information provided in the operation manual.

WEAR SAFETY GLASSES. Failure to wear safety glasses with side shields could result in serious eye injury or blindness.

DE-ENERGIZE, DE-PRESSURISE, DISCONNECT AND LOCK OUT ALL POWER SOURCES DURING MAINTENANCE. Failure to de-energize, disconnect and lock out all power supplies before performing equipment maintenance could cause serious injury or death.

NOISE LEVELS. The A-weighted sound level of pumping and spray equipment may exceed 85 dB(A) depending on equipment settings. Actual noise levels are available on request. It is recommended that ear protection is worn at all times while equipment is in use.

INSPECT THE EQUIPMENT DAILY. Inspect the equipment for worn or broken parts on a daily basis. Do not operate the equipment if you are uncertain about its condition.

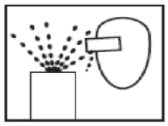
EQUIPMENT MISUSE HAZARD. Equipment misuse can cause the equipment to rupture, malfunction or start unexpectedly and result in serious injury.

HIGH PRESSURE CONSIDERATION. High pressure can cause serious injury. Relieve all pressure before servicing. Spray from the gun, hose leaks or ruptured components can inject fluid into your body and cause extremely serious injury.

STATIC CHARGE. Fluid may develop a static charge that must be dissipated through proper grounding of the equipment, objects to be sprayed and alll other electrically conductive objects in the dispensing area. Improper grounding or sparks can cause a hazardous condition and result in fire, explosion or elecrtic shock and other serious injury.

PROP 65 WARNING. WARNING:This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

AUTOMATIC EQUIPMENT. Automatic equipment may start suddenly without warning.



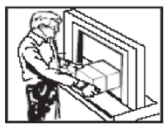
PROJECTILE HAZARD. You may be injured by venting liquids or gased that are released under pressure, or flying debris.

KNOW WHERE AND HOW TO SHUT OFF THE EQUIPMENT IN CASE OF AN EMERGENCY.

PRESSURE RELIEF PROCEDURE. Always follow the pressure relief procedure in the equipment instruction manual.

OPERATOR TRANING. All personnel must be trained before operating finishing equipment.

PACEMAKER WARNING. You are in the presence of magnetic fields which may interfere with the operation of certain pacemakers.



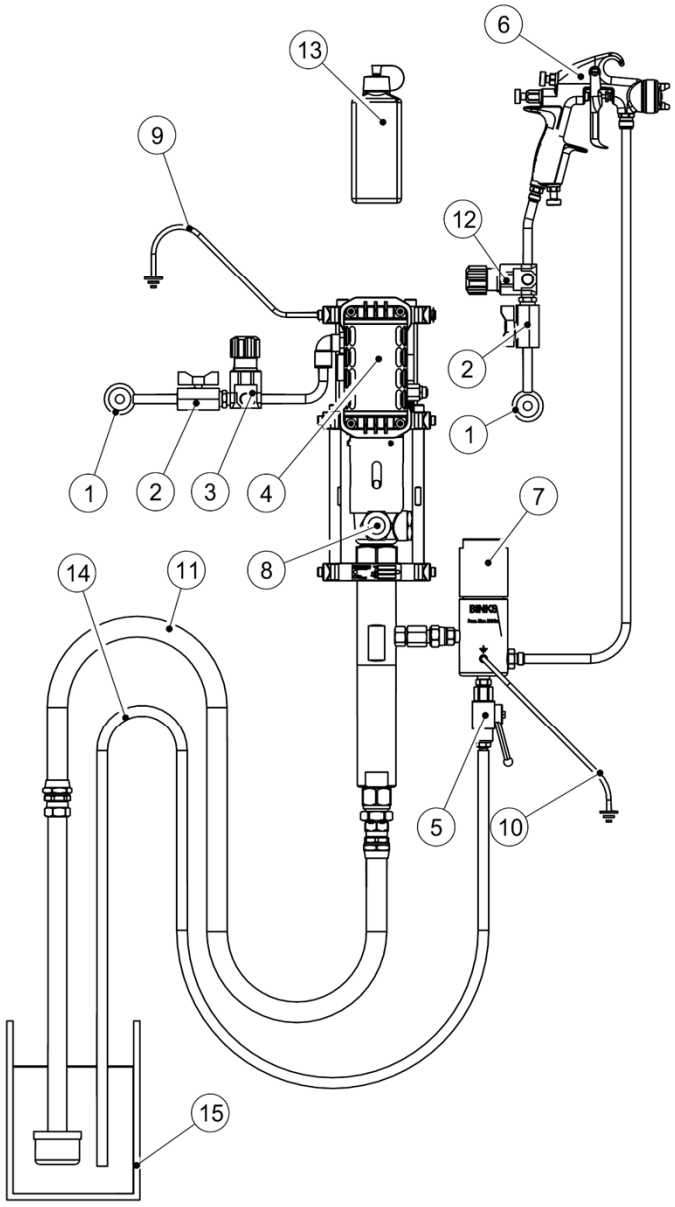
KEEP EQUIPMENT GUARDS IN PLACE. Do not operate the equipment if the safety devices have been removed.

NEVER MODIFY THE EQUIPMENT. Do not modify the equipment unless the manufacturer provides written approval.

PINCH POINT HAZARD. Moving parts can crush and cut. Pinch points are any areas where ther are moving parts.

IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PROVIDE THIS INFORMATION TO THE OPERATOR OF THE EQUIPMENT.

PUMP OPERATION AND CLEANING



1	AIR SUPPLY
2	AIR SHUT OFF VALVE (IF FITTED)
3	AIR PRESSURE REGULATOR
4	BINKS PUMP
5	FLUID PRESSURE RELIEF VALVE (IF FITTED)
6	SPRAY GUN
7	FLUID FILTER (IF FITTED)
8	LUBRICATION CUP & LEVEL
9	EARTH CABLE AIR MOTOR
10	EARTH CABLE FLUID FILTER (IF FITTED)
11	FLUID SUCTION HOSE/SUCTION TUBE/GRAVITY HOPPER - DEPENDING ON MODEL
12	AIR PRESSURE REGULATOR (SPRAY GUN) (IF FITTED)
13	LUBRICANT 0114-016099 SOLVENT BASED MATERIALS 0114-016100 WATER BASED MATERIALS
14	RELIEF/RETURN HOSE (IF FITTED)
15	FLUID CONTAINER

⚠ WARNING	WEAR EYE PROTECTION WHEN OPERATING THIS EQUIPMENT

⚠ WARNING	PUMP MUST BE GROUNDED BEFORE OPERATING, TO PREVENT STATIC CHARGES.

⚠ WARNING	HOSES MUST HAVE A SUITABLE WORKING PRESSURE ABOVE THE MAXIMUM PRESSURE POSSIBLE.

INSTALLATION

1 - ENSURE THE PUMP IS LOCATED ON A SUITABLE & STABLE MOUNTING.
2 - GROUND/EARTH THE PUMP WITH (9) OR (10), CHECK EARTH IS LESS THAN 1 Ohm.
3 - CONNECT SUITABLE HOSES FOR AIR SUPPLY AND FLUID HOSE TO GUN.
4 - FILL THE LUBRICATION CUP (8) WITH A SUITABLE LUBRICANT (13) SO IT IS VISIBLE IN THE LEVEL SIGHT GLASS.
5 - ENSURE SUITABLE FILTER MESH (100 MESH, 150 µm STD) IS INSTALLED IN THE FILTER(7).
6 - ENSURE RETURN HOSE (14) IF FITTED, IS DIRECTED INTO THE FLUID CONTAINER (15).

CLEANING THE PUMP

NOTE	THE PUMP HAS BEEN TESTED WITH OIL, WATER OR OTHER MATERIAL. CLEAN THE PUMP PRIOR TO USE TO AVOID ANY CONTAMINATION.

1 - INSERT SUCTION SYSTEM (11) & RETURN HOSE (14) (IF FITTED) INTO A CONTAINER WITH SUITABLE CLEANING FLUID.
2 - CLOSE VALVE (2) AND SET REGULATORS (3) & (12) TO ZERO (WIND ANTICLOCKWISE), OPEN VALVE (5) IF FITTED.
3 - REMOVE FLUID NOZZLE FROM THE SPRAY GUN FOR RETURNING FLUID INTO THE CONTAINER
4 - CONNECT AIR SUPPLY
a) IF (5) IS FITTED:
5a - OPEN VALVE (2), INCREASE REGULATOR PRESSURE (3) UNTIL PUMP STARTS TO OPERATE (APPROX. 1 BAR [14.5 PSI])
6a - ALLOW FLUID TO CIRCULATE FOR SEVERAL MINUTES OR UNTIL SYSTEM IS CLEAN.
7a - CLOSE VALVE (5) AND TRIGGER SPRAY GUN INTO CONTAINER FOR SEVERAL MINUTES TO CLEAN HOSE & GUN.
8a - WITH THE TRIGGER STILL OPEN REDUCE REGULATOR PRESSURE (3) TO ZERO, AND OPEN VALVE (5) IF FITTED AND CLOSE TRIGGER.
b) IF (5) IS NOT FITTED.
5b - TRIGGER SPRAY GUN AND HOLD OVER CONTAINER, INCREASE REGULATOR PRESSURE (3) UNTIL PUMP STARTS TO OPERATE (APPROX. 1 BAR [14.5PSI])
6b - ALLOW FLUID TO CIRCULATE FOR SEVERAL MINUTES OR UNTIL SYSTEM IS CLEAN.
7b - WITH THE TRIGGER STILL OPEN REDUCE REGULATOR PRESSURE(3) TO ZERO AND ENSURE NO PRESSURE IS LEFT IN THE HOSE AND GUN BEFORE CLOSING THE TRIGGER.

NOTE	REPEAT CLEANING PROCESS UNTIL CLEANING FLUID HAS NO CONTAMINATION, ESPECIALLY IF THE PUMP WILL NOT BE USED IMMMEDIATELY, OR HAS BEEN USED WITH 2 COMPONENT PAINTS.
⚠ **CAUTION**	WHEN THE SPRAY GUN IS NOT IN USE THE SAFTEY LOCK SHOULD BE ENGAGED TO PREVENT ACCIDENTAL OPERATION.

STARTUP

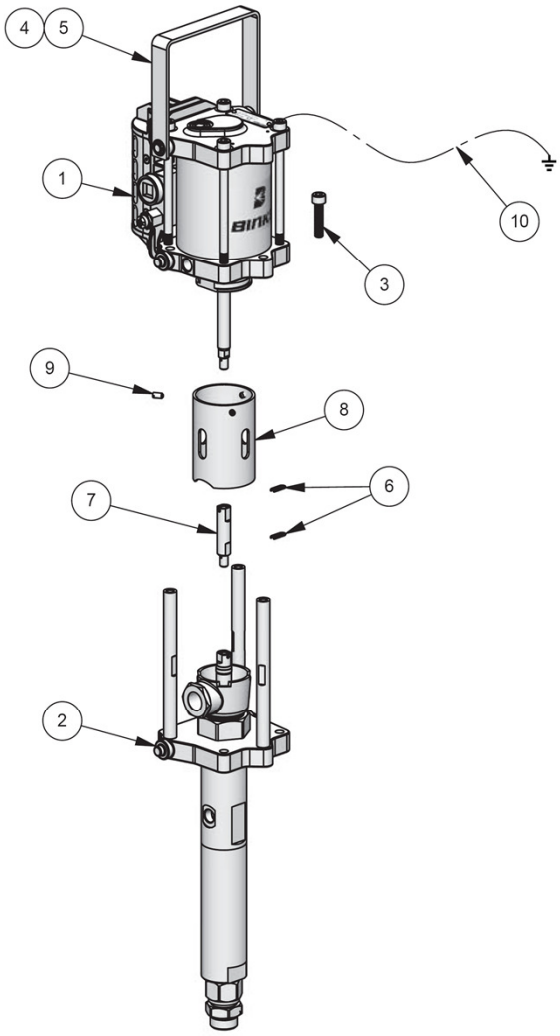
1 - INSERT SUCTION SYSTEM (11) & RETURN HOSE (14) (IF FITTED) INTO A CONTAINER WITH THE FLUID TO BE SPRAYED
2 - CLOSE VALVE (2) AND SET REGULATORS (3) AND (12) TO ZERO (WIND ANTICLOCKWISE), OPEN VALVE (5) IF FITTED.
3 - REMOVE SPRAY TIP FROM THE GUN FOR RETURNING FLUID INTO THE CONTAINER.
4 - CONNECT AIR SUPPLY.
a) IF (5) IS FITTED
5a - OPEN VALVE (2), INCREASE REGULATOR PRESSURE (3) UNTIL PUMP STARTS TO OPERATE.
6a - WHEN FLUID FLOWS THROUGH HOSE (14) WITHOUT AERATION, CLOSE VALVE (5).
7a - OPEN SPRAY GUN TRIGGER UNTIL FLUID FLOWS INTO CONTAINER WITHOUT AIR, THEN RELEASE TRIGGER.
b) IF (5) IS NOT FITTED.
5b - TRIGGER THE SPRAY GUN AND HOLD OVER CONTAINER, INCREASE REGULATOR PRESSURE (3) UNTIL PUMP STARTS TO OPERATE.
6b - KEEP TRIGGER OPEN UNTIL FLUID FLOWS INTO CONTAINER WITHOUT AERATION, THEN RELEASE TRIGGER.
8 - REDUCE REGULATOR PRESSURE (3) TO ZERO.
9 - APPLY SPRAY GUN SAFETY LOCK WHILE SPRAY TIP IS FITTED.
10 - INCREASE REGULATOR PRESSURE(3) UNTIL DESIRED ATOMISATION IS ACHIEVED FROM SPRAY GUN.
11 - INCREASE REGULATOR PRESSURE (12) TO ACHIEVE DESIRED SPRAY FAN.

SHUT DOWN

1 - REDUCE REGULATOR PRESSURE (3) AND (12) TO ZERO.
2 - TRIGGER GUN TO REDUCE SYSTEM PRESSURE.
3 - OPEN VALVE (5) SLOWLY IF FITTED.
4 - APPLY SPRAY GUN SAFETY LOCK WHILE SPRAY TIP IS REMOVED
5 - TRIGGER GUN CAREFULLY INTO CONTAINER AND ENSURE FLUID SYSTEM IS DE-PRESSURISED.
6 - CLOSE VALVE(2) AND REMOVE AIR SUPPLY.
7 - APPLY SPRAY GUN SAFETY LOCK.
8 - CLEAN AS INSTRUCTED AND SOAK/CLEAN SPRAYGUN FLUID NOZZLE.

NOTE	IF THE SYSTEM IS NOT USED FOR AN EXTENDED PERIOD IT IS RECOMMENDED TO BE FILLED WITH A LIGHT OIL AFTER CLEANING.

MX432 & MXL432 BARE PUMP

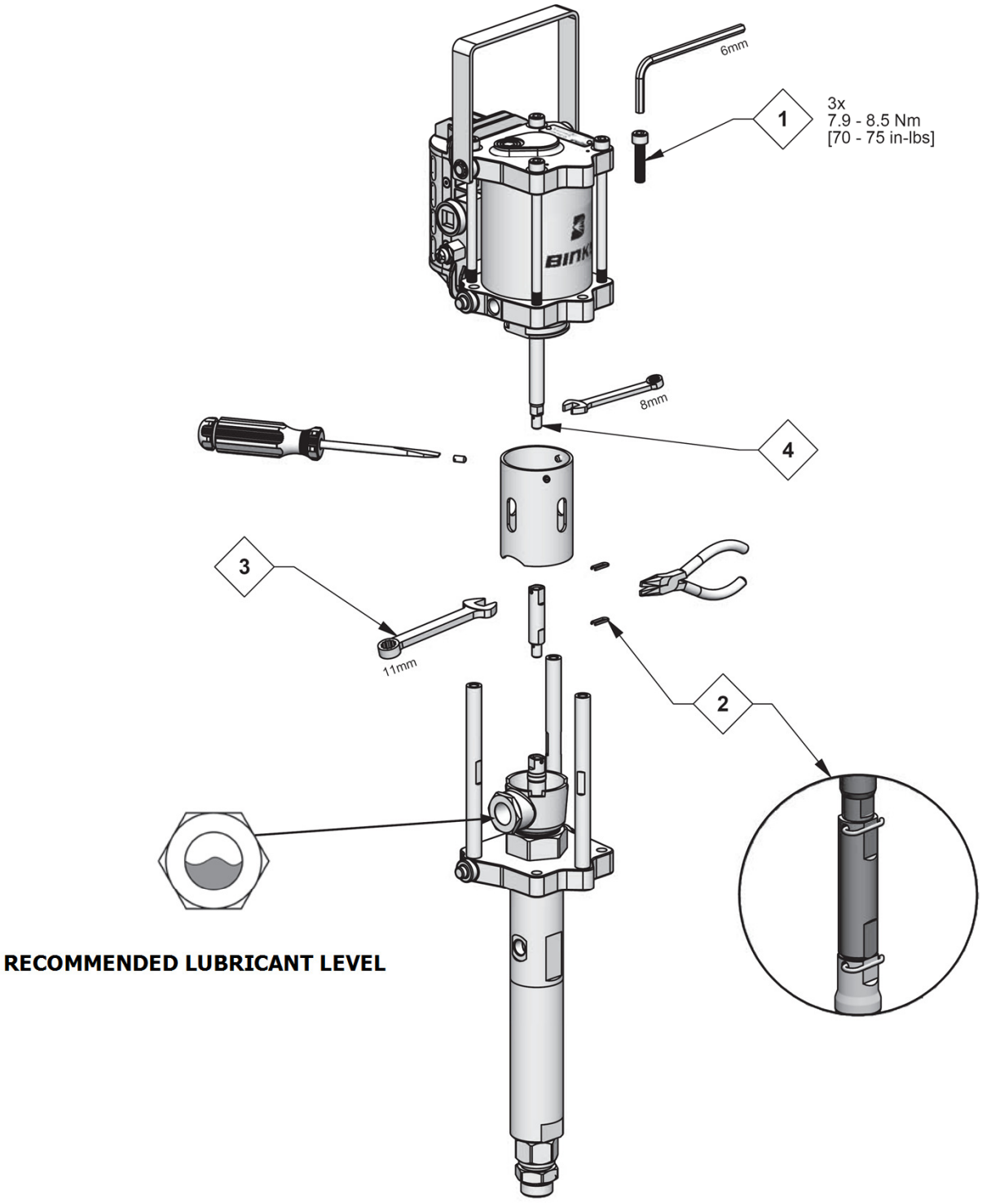


ITEM	PART NUMBER	DESCRIPTION	QUANTITY MX432 & MXL432			
			PL	PP	PU	UC
1	AX85S	AX85S AIR MOTOR	1	1	1	1
2	FX4PL/FXL4PL	FLUID SECTION (PTFE/LEATHER)	1	-	-	-
	FX4PP/FXL4PP	FLUID SECTION (PTFE)	-	1	-	-
	FX4PU/FXL4PU	FLUID SECTION (PTFE/UHMW)	-	-	1	-
	FX4UC/FXL4UC	FLUID SECTION (U-CUPS)	-	-	-	1
3	0115-010001 Δ	SOCKET HEAD CAP SCREW	3	3	3	3
4	0114-014351	HANDLE	1	1	1	1
5	0115-010272	RETAINING RING	2	2	2	2
6	0115-010099 •	ROD CLIP	2	2	2	2
7	0115-010656	MX4 MOTOR ROD ADAPTER	1	1	1	1
8	0115-010655	GUARD	1	1	1	1
9	166001	SLOTTED SET SCREW	3	3	3	3
10	0114-011798	GROUND WIRE	1	1	1	1

• Part only available in repair kits: 0115-010220, 0115-010222 and 0115-010224.

Δ Part only available in AX85 Hardware kit: 0115-010213.

MX432 & MXL432 BARE PUMP - MAINTENANCE

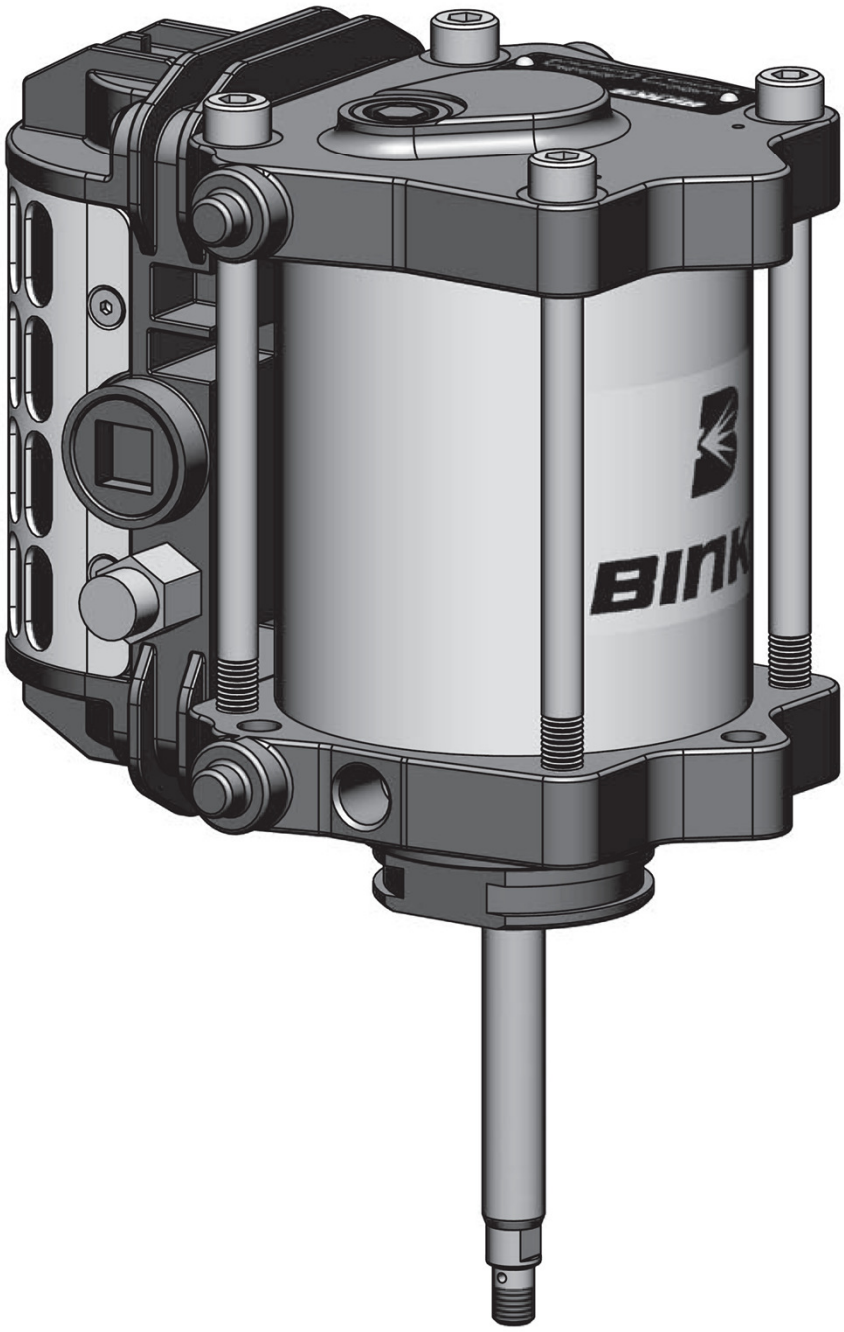


MAINTENANCE SYMBOLS	
(#)	ITEM NUMBER
◇#	DISASSEMBLY ORDER (Reverse order for assembly)
△PG	PETROLEUM JELLY/GREASE
△TS	THREAD SEALANT (PTFE tape)

MX432 & MXL432 BARE PUMP - TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Pump will not start	No compressed air. Spray tip is blocked.	Check compressed air supply. Clean or replace the spray tip.
Erratic operation of air motor, air motor stops.	Worn poppet assemblies. Worn or dirty spool and sleeve assembly.	Replace the poppet assemblies. Clean or replace the spool and sleeve assembly, as necessary.
Continuous air leak from the exhaust	Worn poppet assemblies. Worn piston seal. Worn diaphragm.	Replace poppet assemblies. Replace piston seal. Replace diaphragm.
Material in solvent cup.	Worn or dirty upper packings.	Replace or clean upper packings as necessary.
Pump does not stop on the down stroke.	Worn or dirty lower ball check.	Replace or clean the parts as necessary.
Pump does not stop on the up stroke.	Worn or dirty upper ball check. Worn or dirty lower packings.	Replace or clean the parts as necessary.
Pump runs erratically	Blocked siphon kit. Blocked inlet filter or strainer. Low material level.	Replace or clean the siphon kit. Replace or clean the inlet filter or strainer. Replace or refill material container.
Pump runs , with no output.	Loose connection in between pump and siphon kit. Stuck lower ball.	Check that all connections are tight. Replace or clean the parts as necessary.

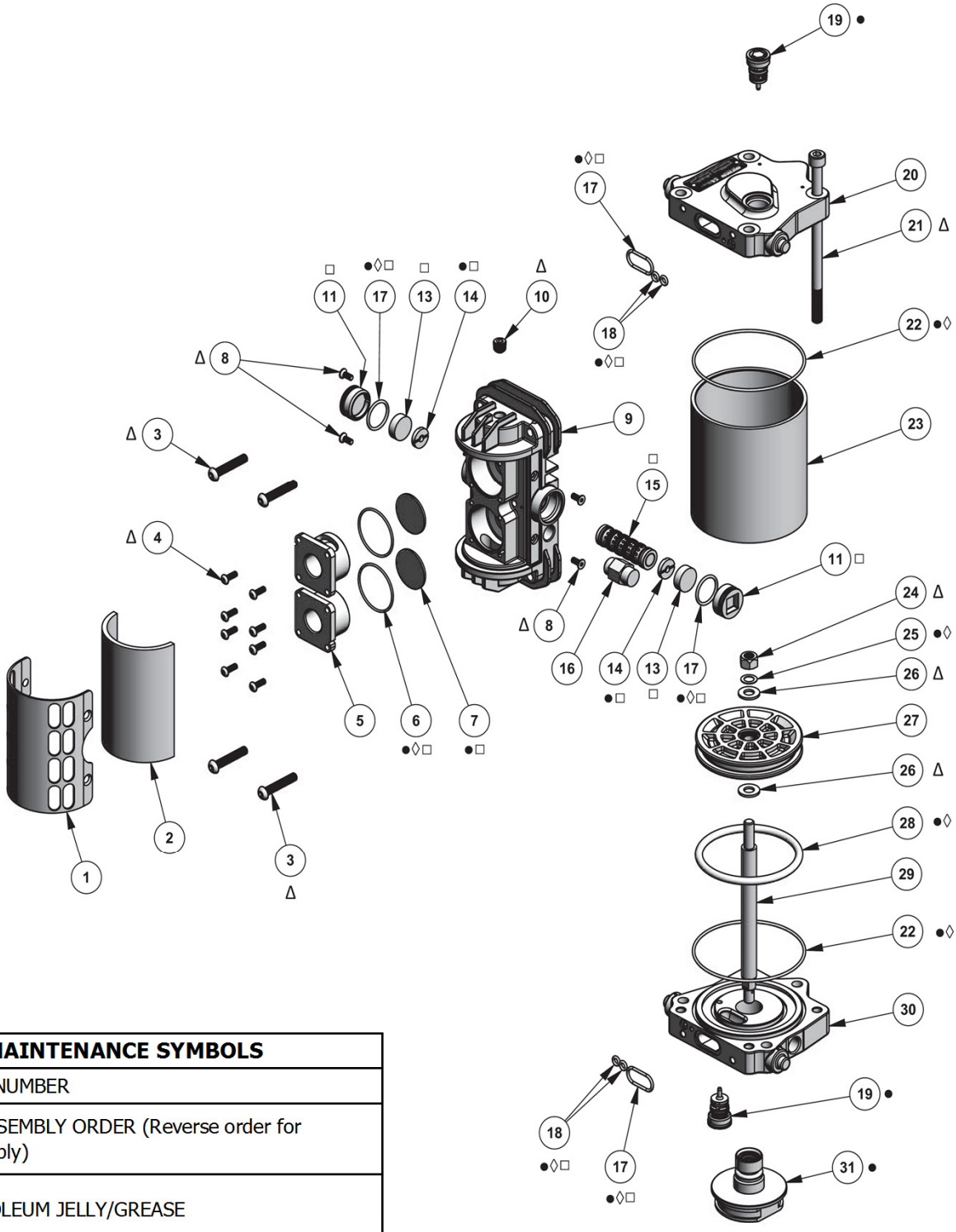
AX85S Air Motor



Patent 7,603,855

SPECIFICATION	
Maximum air inlet pressure	8 bar [116 psi]
Maximum recommended continous cycle rate: (cycles/min)	20
Air inlet connection:	3/8" BSP(f)
Piston Diameter:	85 mm [3.3 in]
Stroke Length:	75 mm [3.0 in]

AX85S AIR MOTOR



MAINTENANCE SYMBOLS	
#	ITEM NUMBER
#	DISASSEMBLY ORDER (Reverse order for assembly)
PG	PETROLEUM JELLY/GREASE
TS	THREAD SEALANT (PTFE tape)

- ● Parts are included in 0115-010215 AX85 Repair Kit
- ◇ Parts are included in 0115-010217 AX85 Seal Kit
- □ Parts are included in 0115-010226 Air Motor Valve Repair Kit
- Δ Parts are included in 0115-010213 AX85 Hardware Kit.

AX85S AIR MOTOR

REF.	PART NUMBER	DESCRIPTION	QTY
1	0115-010023 ○	EXHAUST COVER SCREEN	1
2	0115-010022 ○	EXHAUST COVER	1
3	0115-010026 ○Δ	BUTTON HEAD CAP SCREW	4
4	0115-010073 ○Δ	BUTTON HEAD CAP SCREW	8
5	0115-010019 ○	QUICK EXHAUST VALVE CAGE	2
6	0115-010021 ○+§□	O-RING	2
7	0115-010020 ○+□	DIAPHRAGM	2
8	0115-010024 ○Δ	COUNTER SUNK CAP SCREW	4
9	0115-010097 ○	VALVE BLOCK	1
10	0115-010107 ○Δ	PIPE PLUG	1
11	0115-010018 ○□	VALVE BLOCK END CAP	2
13	0115-010017 ○□	MAGNET	2
14	0115-010016 ○+□	BUMPER	2
15	0115-010015 ○□	SPOOL AND SLEEVE ASSEMBLY	1
16	0114-014774 ○	SAFETY VALVE	1
17	0115-010049 ○+§□	O-RING	4
18	0115-010051 +§□	O-RING	4
19	0115-010037 +	POPPET ASSEMBLY	2
20	0115-010004	UPPER END CAP MACHINING	1
21	0115-010029 Δ	SOCKET HEAD CAP SCREW	4
22	0115-010050 +§	CYLINDER SEAL, 85mm	2
23	0115-010003	CYLINDER, 85mm	1
24	0115-010096 Δ	LOCKNUT	1
25	0115-010036 +§	SEALING RING	1
26	0115-010035 Δ	FLAT WASHER	2
27	0115-010336	PISTON, 85mm	1
28	0114-014466 +§	PISTON SEAL, 85mm	1
29	0115-010034	MOTOR ROD	1
30	0115-010006	LOWER END CAP MACHINING	1
31	0115-010657 +	MOTOR ROD CARTRIDGE ASSEMBLY	1

○ Items available separately or as a complete assembly: 0115-010660.
\+ Parts are included in 0115-010215 AX85 Repair Kit.
§ Parts are included in 0115-010217 AX85 Seal Kit.
□ Parts are included in 0115-010226 Air Motor Valve Repair Kit.
Δ Parts are included in 0115-010213 AX85 Hardware Kit.

AX85S AIR MOTOR - MAINTENANCE

MAINTENANCE SYMBOLS	
(#)	ITEM NUMBER
◇#	DISASSEMBLY ORDER (Reverse order for assembly)
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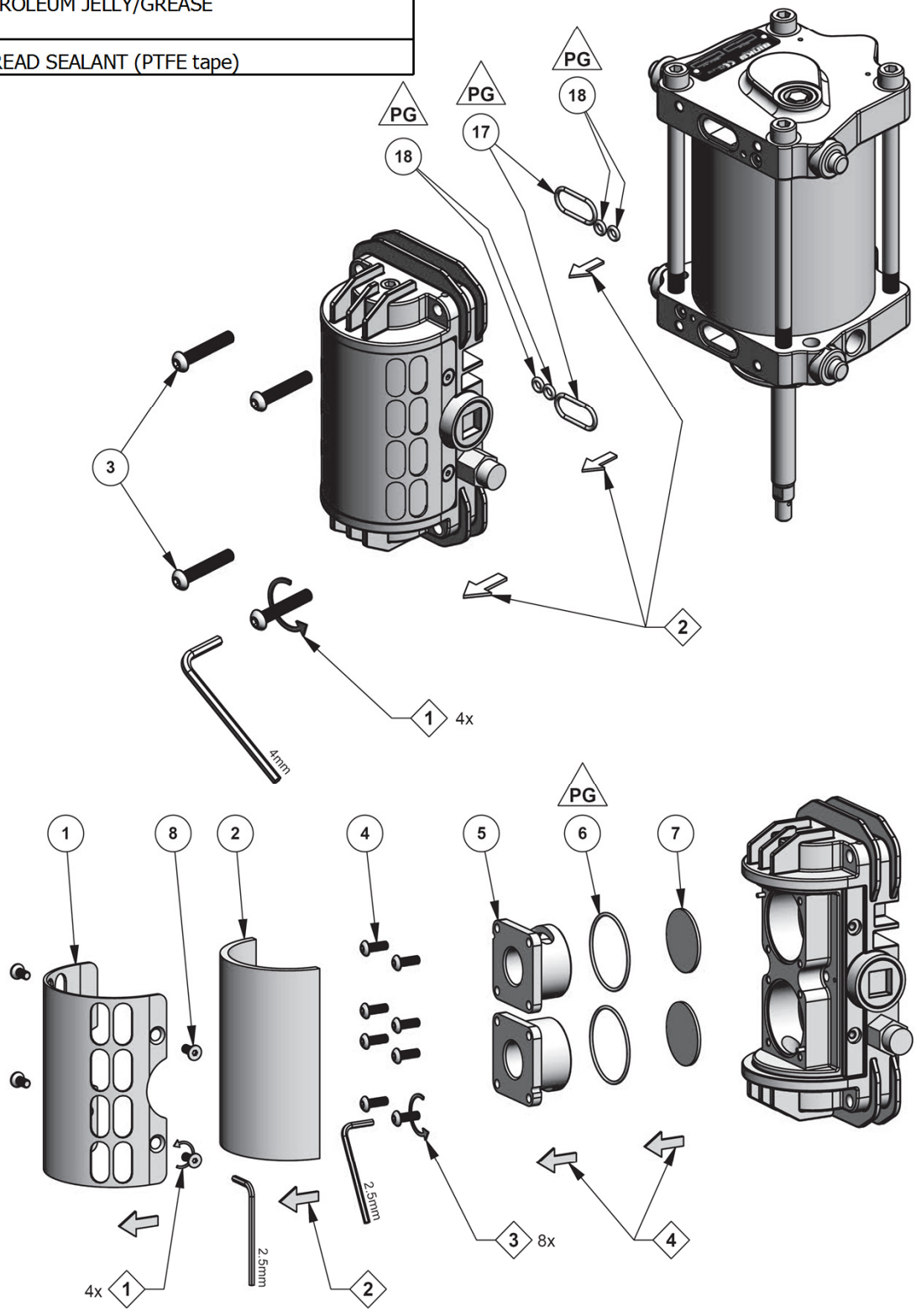
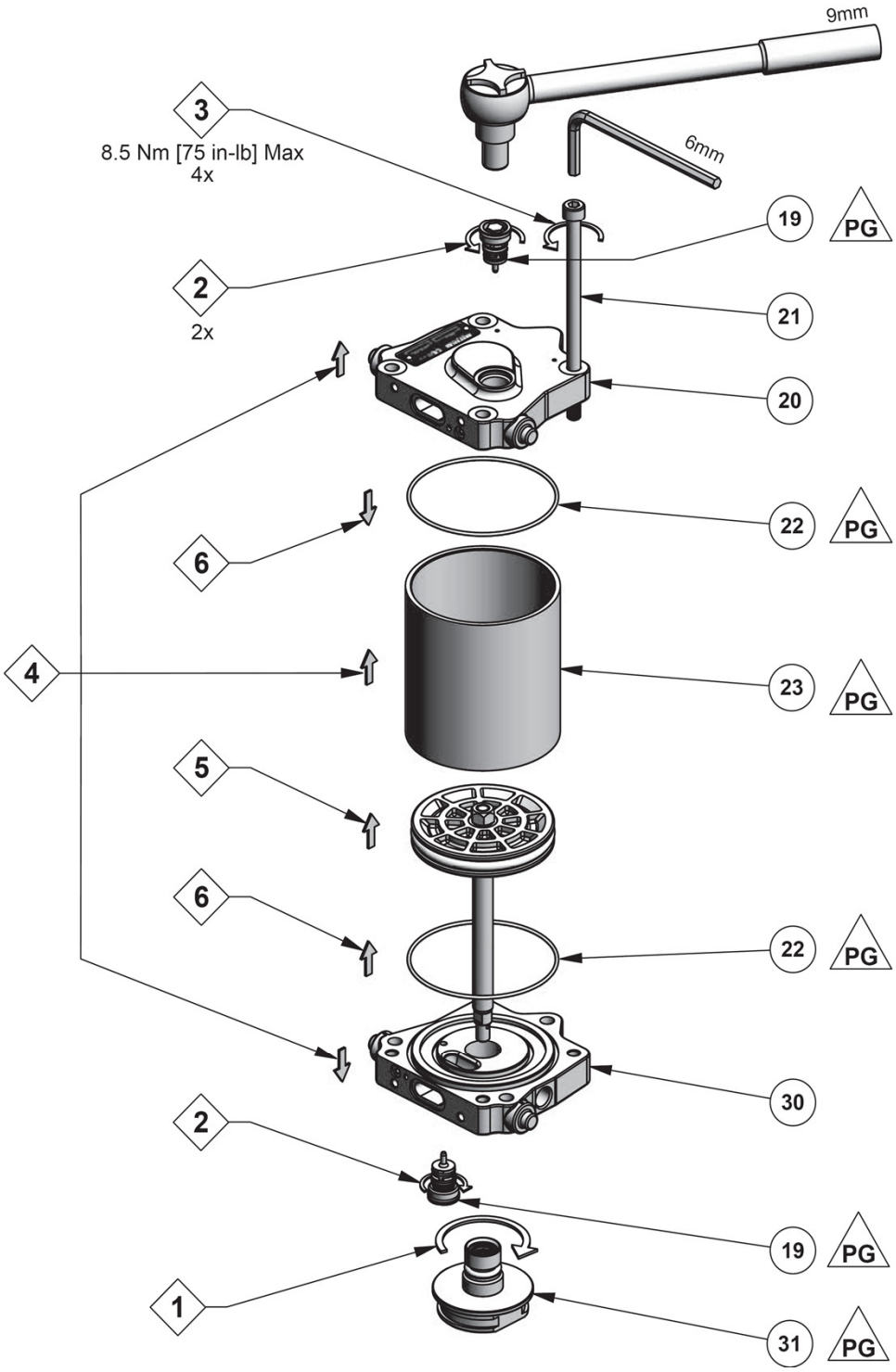
△TS	THREAD SEALANT (PTFE tape)



AX85S AIR MOTOR - MAINTENANCE



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AX85S AIR MOTOR - MAINTENANCE

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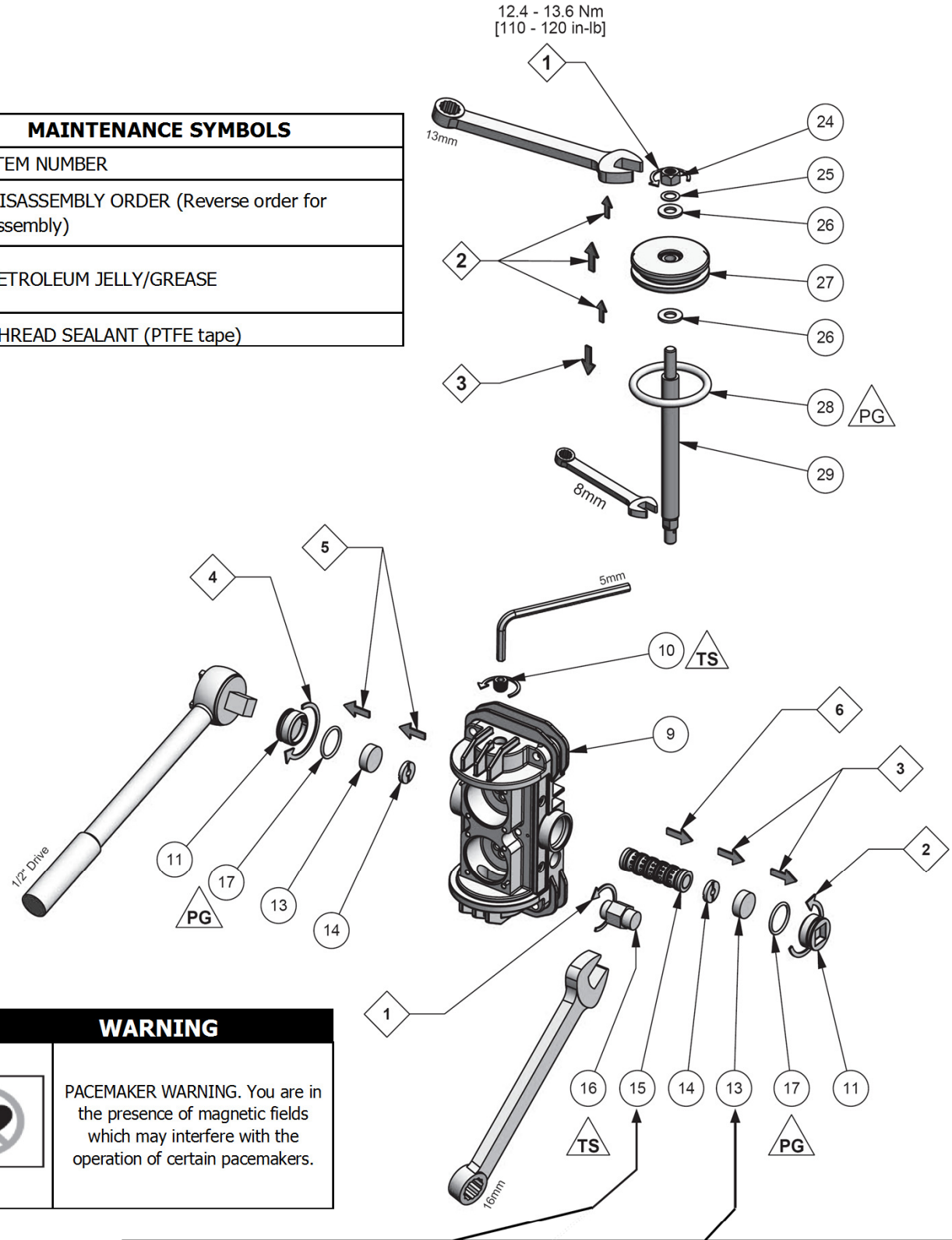


WARNING	
	PACEMAKER WARNING. You are in the presence of magnetic fields which may interfere with the operation of certain pacemakers.

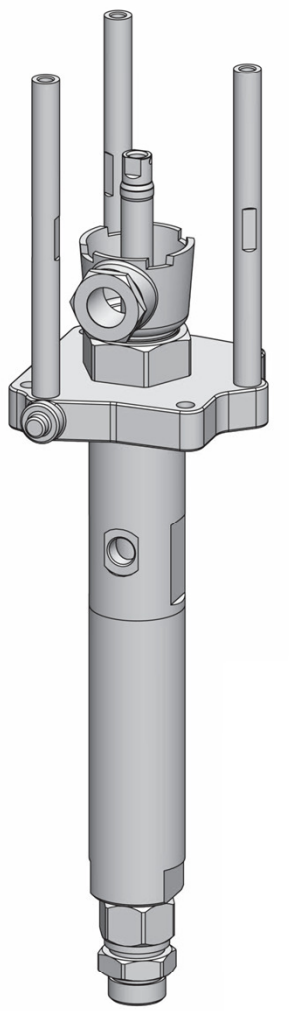
NOTE	CAUTION
Spool and sleeve assembly (15) is a matched set and cannot be interchanged with other spool and sleeve assemblies	Take care when handling the magnets (13). Avoid getting magnets in close proximity to each other. Injury or damage to magnets may result.

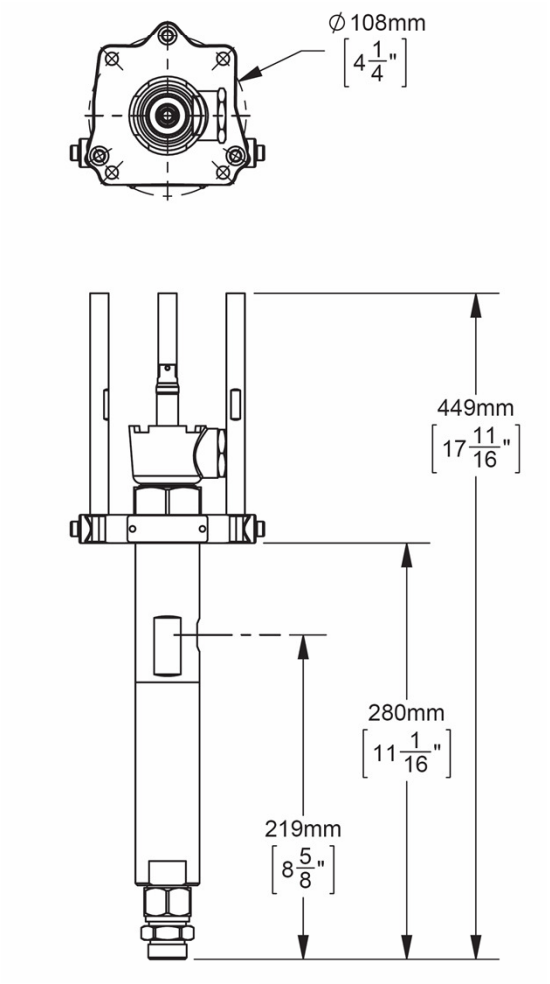
AX85S AIR MOTOR - TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Pump will not start	No compressed air. System is blocked.	Check compressed air supply. Clear the blockage.
Erratic operation of air motor, air motor stops	Worn poppet assemblies. Worn or dirty spool and sleeve assembly.	Replace poppet assemblies. Clean or replace the spool and sleeve assembly as necessary.
Continuous air leak from the exhaust	Worn poppet assemblies. Worn piston seal. Worn diaphragm.	Replace poppet assemblies. Replace piston seal. Replace diaphragm.

FX4 & FXL4 Fluid Section

Models: FX4‡‡ & FXL4‡‡, ‡‡=PL (PTFE/Leather), PP (PTFE), PU (PTFE/UHMWPE), UC (U-Cups)

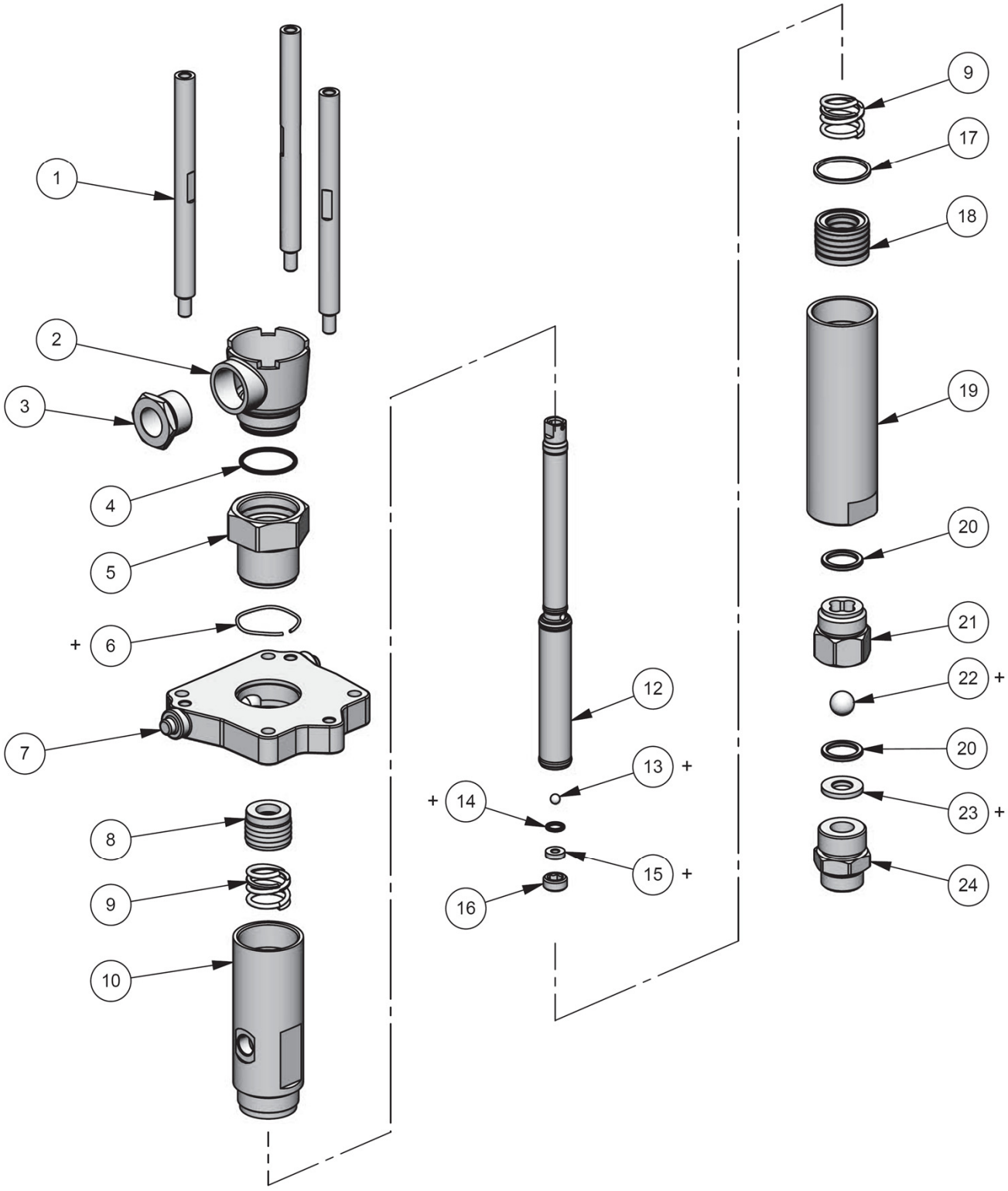




SPECIFICATION	
Maximum fluid pressure:	96 bar (1390psi)
Displacement per cycle:	24 cc [0.8oz]
Output @ 60 cycles/min:	1.4 L/m [0.4 gal/m]
Fluid inlet size:	FX-3/4" NPS(m), FXL-1/2"NPS(m)
Fluid outlet size:	M14x1.5(f)
Weight:	4.2 kg [9.2 lbs]
Wetted parts materials of construction:	Stainless Steel, Tungsten Carbide, Hard Chrome, PTFE, Polythylene, Leather, Ceramic

FX4 & FXL4 Fluid Section (Chevron seals)

Models: FX4‡‡ & FXL4‡‡, ‡‡=PL (PTFE/Leather), PP (PTFE), PU (PTFE/UHMWPE).



Item 3 is self-tapping into item 2.

- Parts are included in Seal Kit.

+ Parts are included in Repair Kit.

FX4 & FXL4 Fluid Section (Chevron seals)

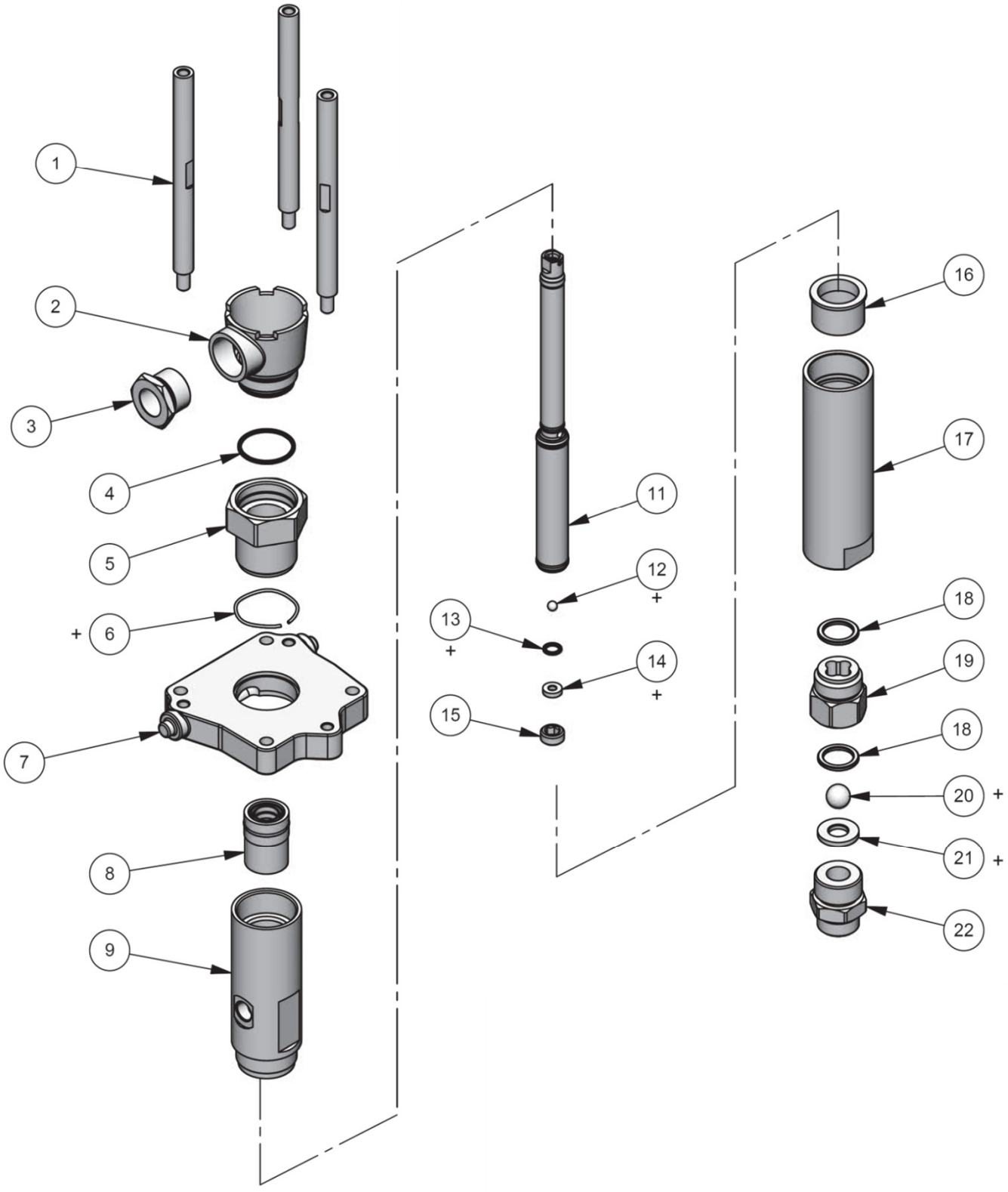
Models: FX4‡‡ & FXL4‡‡, ‡‡=PL (PTFE/Leather), PP (PTFE), PU (PTFE/UHMWPE).

ITEM	PART NUMBER	DESCRIPTION	QUANTITY FX4 & FXL4		
			PL	PP	PU
1	0115-010646	PUMP TIE ROD	3	3	3
2	0115-010059	SOLVENT CUP	1	1	1
3	0115-010060	SIGHT GAUGE	1	1	1
4	0115-010061 •+	SOLVENT CUP SEAL	1	1	1
5	0115-010062	PACKING ADAPTER	1	1	1
6	0115-010058 +	WAVE SPRING	1	1	1
7	0115-010204	ADAPTER PLATE MACHINING	1	1	1
8	0115-010171 •+	UPPER PACKING SET (PTFE/LEATHER)	1	-	-
	0115-010175 •+	UPPER PACKING SET (PTFE/UHMW)	-	-	1
	0115-010206 •+	UPPER PACKING SET (PTFE)	-	1	-
9	0115-010111	PACKING SPRING	2	2	2
10	0115-010055	UPPER PUMP TUBE	1	1	1
12	0115-010063	PUMP ROD (HARD CHROME)	1	1	1
13	0114-014745 +	UPPER BALL, 6mm	1	1	1
14	0115-010065 +	ROD SEAT SEAL	1	1	1
15	0115-010066 +	ROD SEAT	1	1	1
16	0115-010067	ROD SEAT NUT	1	1	1
17	0115-010064 •+	LOWER PUMP TUBE SET	1	1	1
18	0115-010173 •+	LOWER PACKING SET (PTFE/LEATHER)	1	-	-
	0115-010177 •+	LOWER PACKING SET (PTFE/UHMW)	-	-	1
	0115-010207 •+	LOWER PACKING SET(PTFE)	-	1	-
19	0115-010056	LOWER PUMP TUBE	1	1	1
20	0115-010068 •+	LOWER SEAT SEAL	2	2	2
21	0115-010057	LOWER BALL CAGE	1	1	1
22	0114-014237 +	LOWER BALL, 15mm	1	1	1
23	0115-010069 +	LOWER SEAT	1	1	1
24	0115-010149	INLET 3/4" NPS(m) FX4 ONLY	1	1	1
	0115-010070	INLET 1/2" NPS(m) FXL4 ONLY	1	1	1
25	0115-010099 +	ROD CLIP (not shown)	2	2	2

		FX*4PL	FX*4PP	FX*4PU
•	Parts are included in Seal Kit:	0115-010221	0115-010223	0115-010225
+	Parts are included in Repair Kit:	0115-010222	0115-010224	0115-010388

FX4 & FXL4 Fluid Section (U-cup seals)

Models: FX4UC & FXL4UC



Item 3 is self-tapping into item 2.

• Parts are included in 0115-010219 Seal Kit (U-CUPS).

+ Parts are included in 0115-010220 Repair Kit (U-CUPS).

FX4 & FXL4 Fluid Section (U-cup seals)

Models: FX4UC & FXL4UC

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	0115-010646	PUMP TIE ROD	3
2	0115-010059	SOLVENT CUP	1
3	0115-010060	SIGHT GAUGE	1
4	0115-010061 •+	SOLVENT CUP SEAL	1
5	0115-010062	PACKING ADAPTER	1
6	0115-010058 +	WAVE SPRING	1
7	0115-010204	ADAPTER PLATE MACHINING	1
8	0115-010166 •+	UPPER SEAL CARTRIDGE ASSEMBLY	1
9	0115-010055	UPPER PUMP TUBE	1
11	0115-010063	PUMP ROD (HARD CHROME)	1
12	0114-014745 +	UPPER BALL, 6mm	1
13	0115-010065 +	ROD SEAT SEAL	1
14	0115-010066 +	ROD SEAT	1
15	0115-010067	ROD SEAT NUT	1
16	0115-010169 •+	LOWER SEAL CARTRIDGE ASSEMBLY	1
17	0115-010056	LOWER PUMP TUBE	1
18	0115-010068 •+	LOWER SEAT SEAL	2
19	0115-010057	LOWER BALL CAGE	1
20	0114-014237 +	LOWER BALL, 15mm	1
21	0115-010069 +	LOWER SEAT	1
22	0115-010149	INLET 3/4" NPS(m) FX4 ONLY	1
	0115-010070	INLET 1/2" NPS(m) FXL4 ONLY	1
23	0115-010099 +	ROD CLIP (not shown)	2

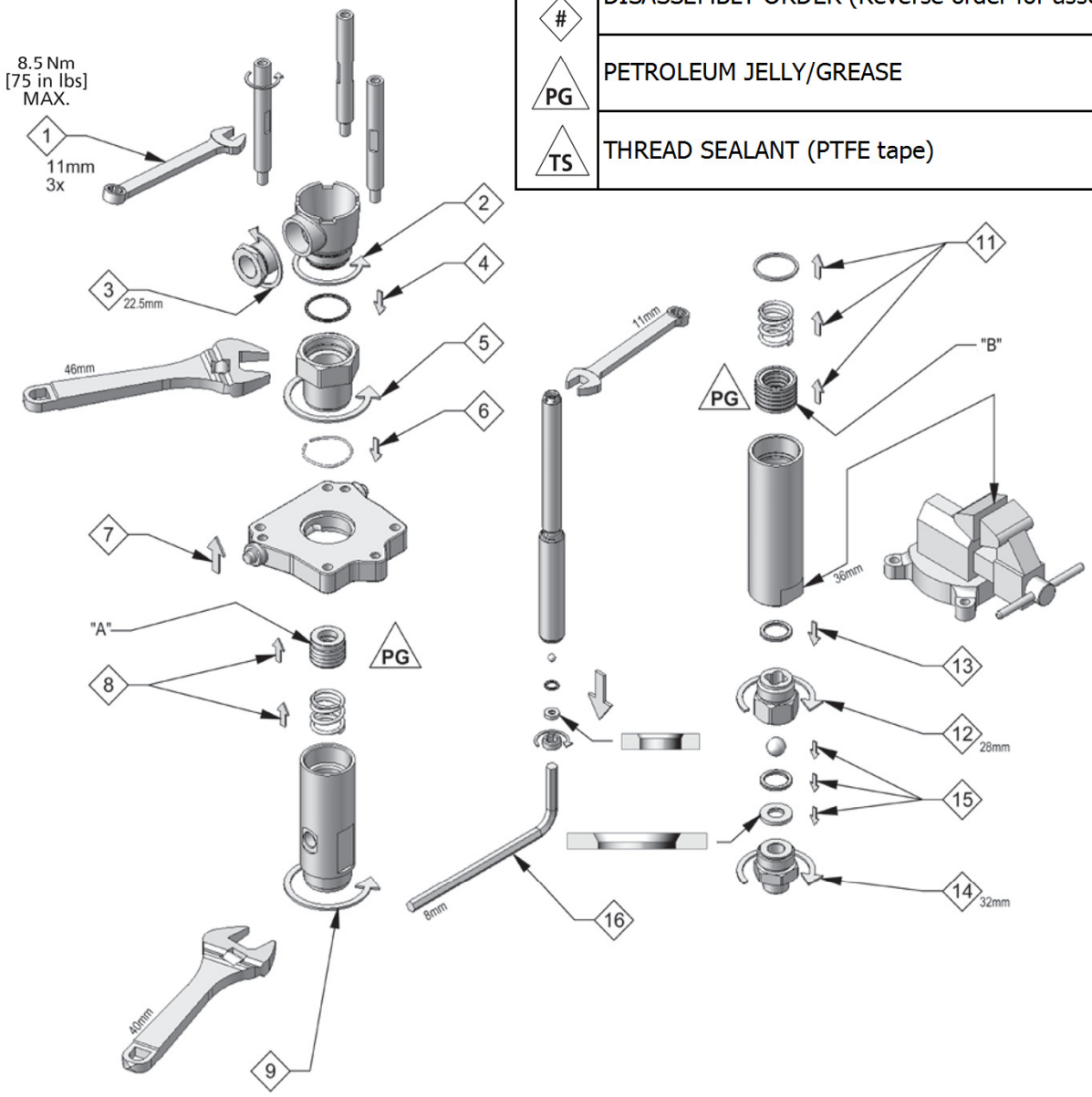
• Parts are included in 0115-010219 Seal Kit (U-CUPS).

+ Parts are included in 0115-010220 Repair Kit (U-CUPS).

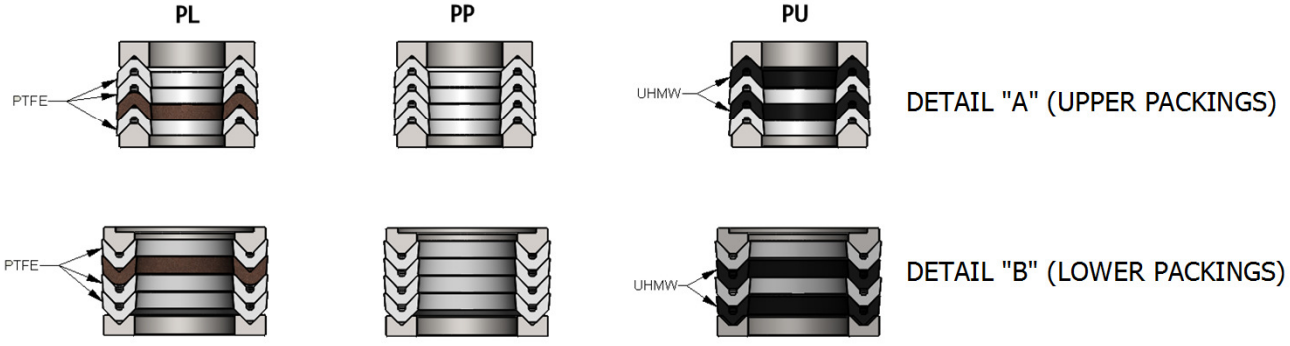
FX4 & FXL4 Fluid Section (Chevron seals)- MAINTENANCE

Models: FX4‡‡ & FXL4‡‡, ‡‡=PL (PTFE/Leather), PP (PTFE), PU (PTFE/UHMWPE).

MAINTENANCE SYMBOLS	
(#)	ITEM NUMBER
◇#	DISASSEMBLY ORDER (Reverse order for assembly)
PG	PETROLEUM JELLY/GREASE
TS	THREAD SEALANT (PTFE tape)



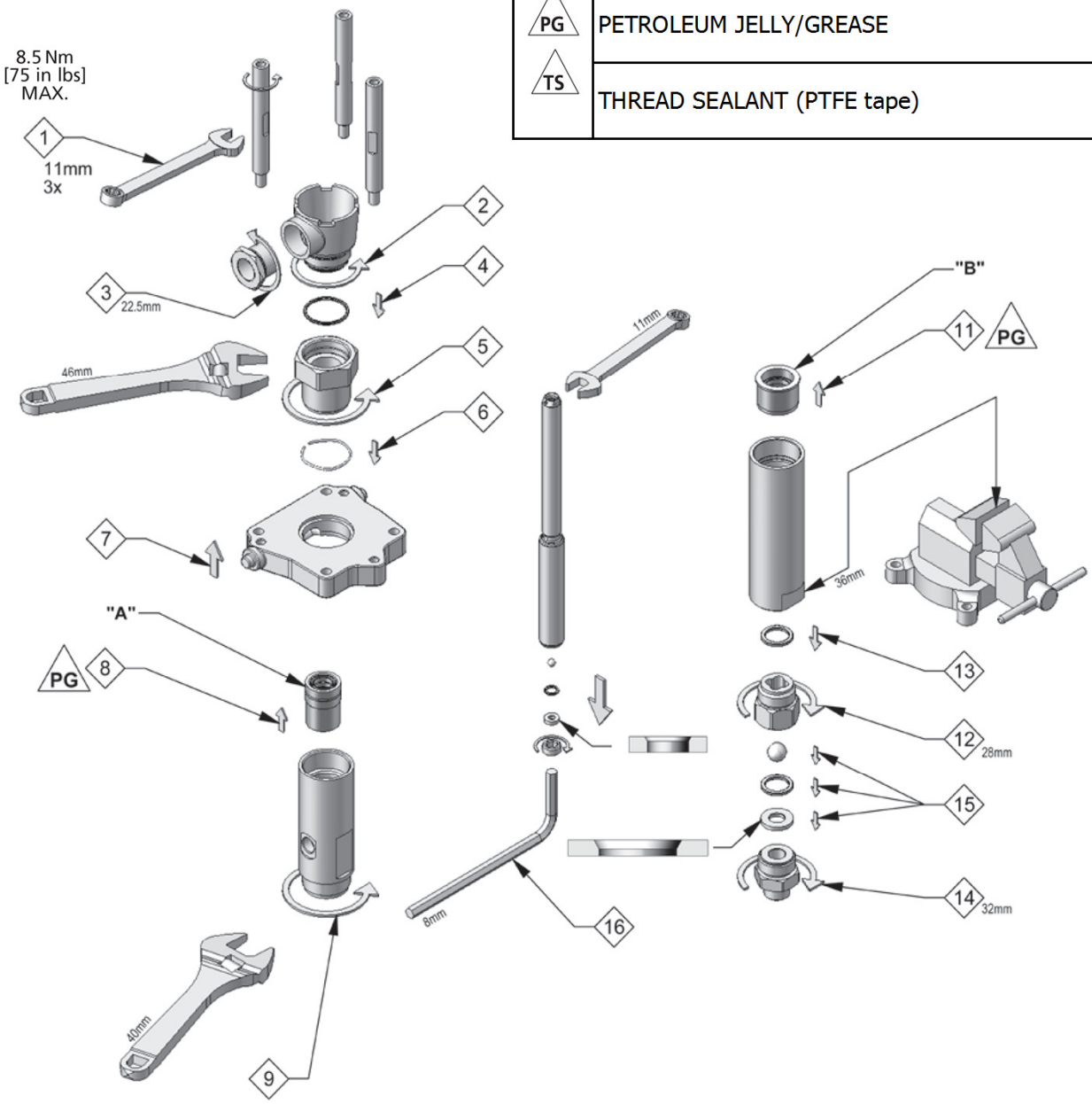
FX4 & FXL4 SEAL ORIENTATION



FX4 & FXL4 Fluid Section (U-cup seals) - MAINTENANCE

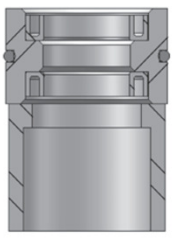
Models: FX4UC & FXL4UC

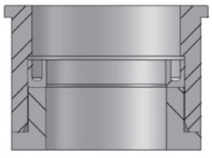
MAINTENANCE SYMBOLS	
(#)	ITEM NUMBER
◇#	DISASSEMBLY ORDER (Reverse order for assembly)
△PG	PETROLEUM JELLY/GREASE
△TS	THREAD SEALANT (PTFE tape)



FX4 & FXL4 SEAL ORIENTATION

DETAIL "A" UPPER SEAL



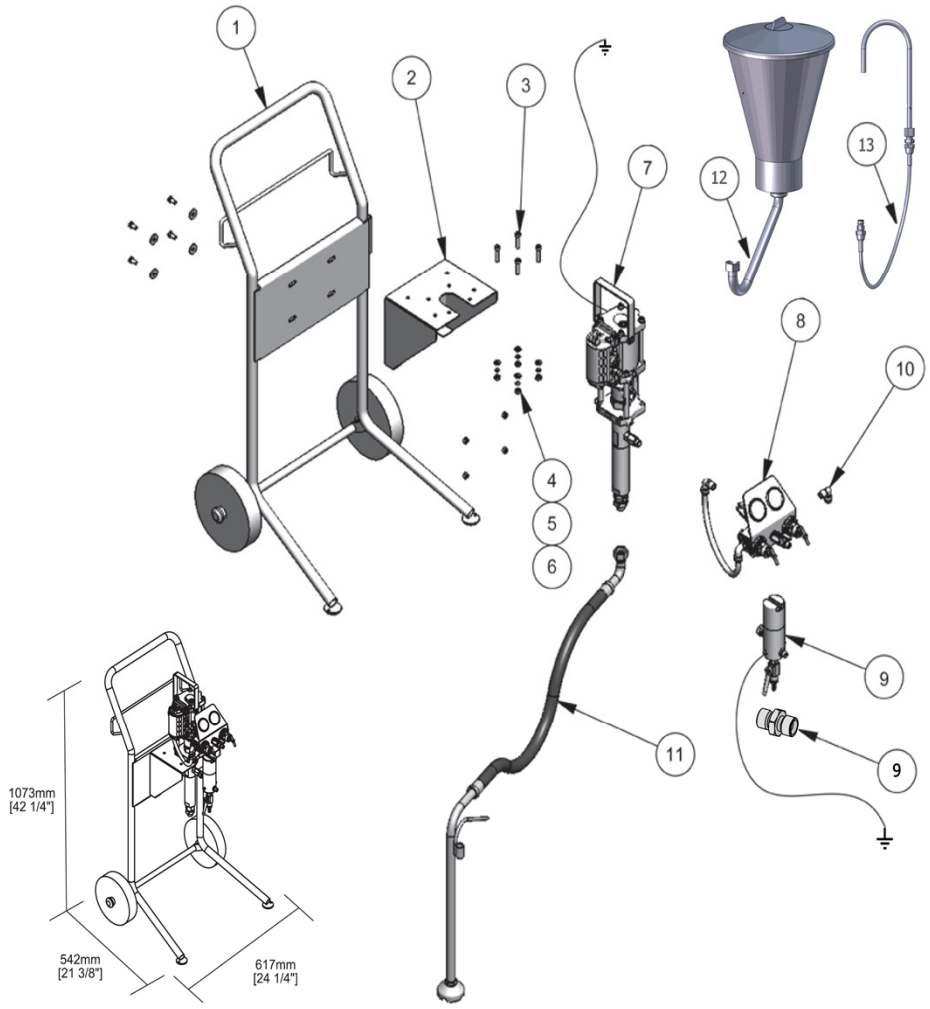


DETAIL "B" LOWER SEAL

FLUID SECTION - TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Material in solvent cup	Worn or dirty upper packings.	Replace or clean upper packings as necessary.
Pump does not stop on the down stroke	Worn or dirty lower ball check.	Replace or clean the parts as necessary.
Pump does not stop on the up stroke	Worn or dirty upper ball check. Worn or dirty lower packings.	Replace or clean the parts as necessary.
Pump runs erratically	Blocked material siphon kit. Blocked inlet filter or strainer. Low material level.	Replace or clean the siphon kit. Replace or clean inlet filter or strainer. Replace or refill material container.
Pump runs, with no output	Loose connection in between pump and siphon assembly. Stuck lower ball.	Check that all connections are tight. Replace or clean the parts as necessary.

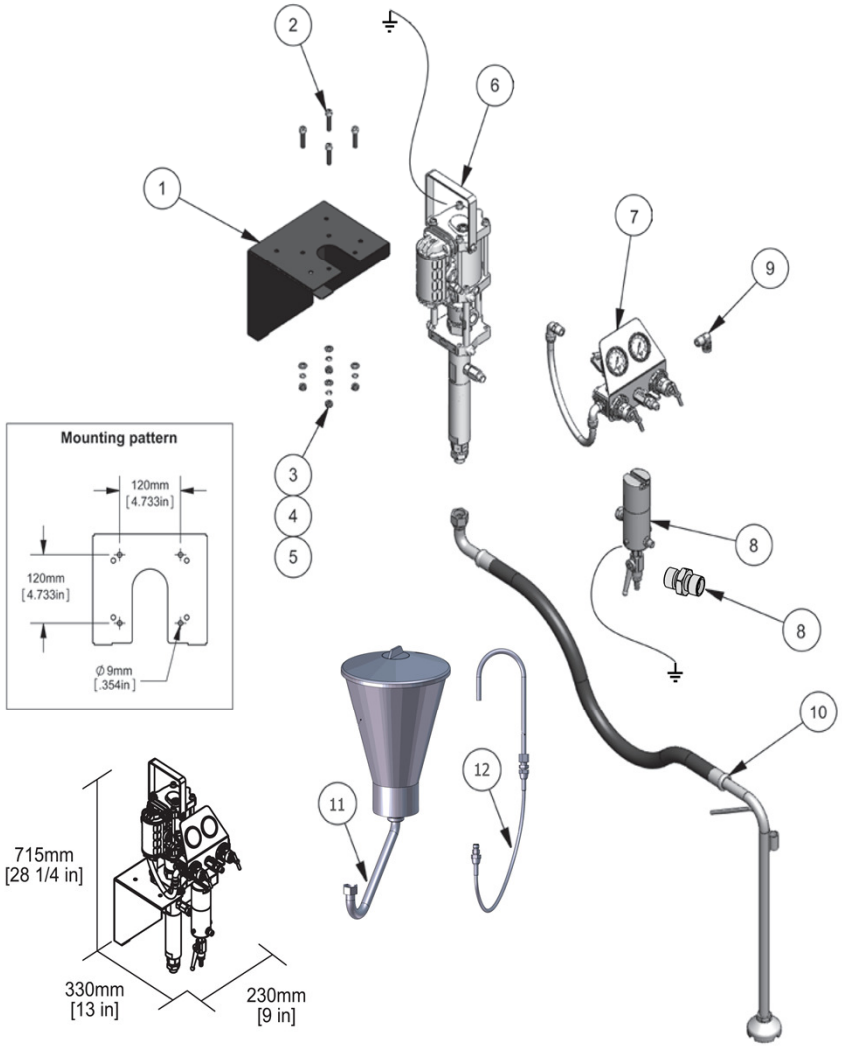
MX432 & MXL432 CART MOUNTED PUMP



*= OPTIONS

ITEM	PART NUMBER	DESCRIPTION	QTY	
			MX	MXL
1	0115-010186	CART	1	
2	0115-010179	WALL BRACKET	1	
3	0115-010001	SCREW	4	
4	0115-010030	M8 HEX NUT	4	
5	0115-010031	M8 LOCKWASHER	4	
6	0115-010035	M8 PLAIN WASHER	4	
7	MX432XX	MX432 BARE PUMP	1	-
	MXL432XX	MXL432 BARE PUMP	-	1
8	0115-010180	AIR CONTROL 2 REGULATORS & VALVE	1	-
	0115-010664	AIR CONTROL 2 REGULATORS	-	1
9	0110-009130	HP FILTER (100 mesh)	1	-
	0115-010669	OUTLET FITTING	-	1
10	0114-009164	ELBOW FITTING	1	
11	0115-010236	SUCTION HOSE (20 mesh) 3/4"	1	-
	0115-010696	SUCTION HOSE (20 mesh) 1/2"	-	1
12	0115-010701	HOPPER 6L [1.6 US Gal]	1*	-
13	0114-009629	1/4" RETURN HOSE	1*	-

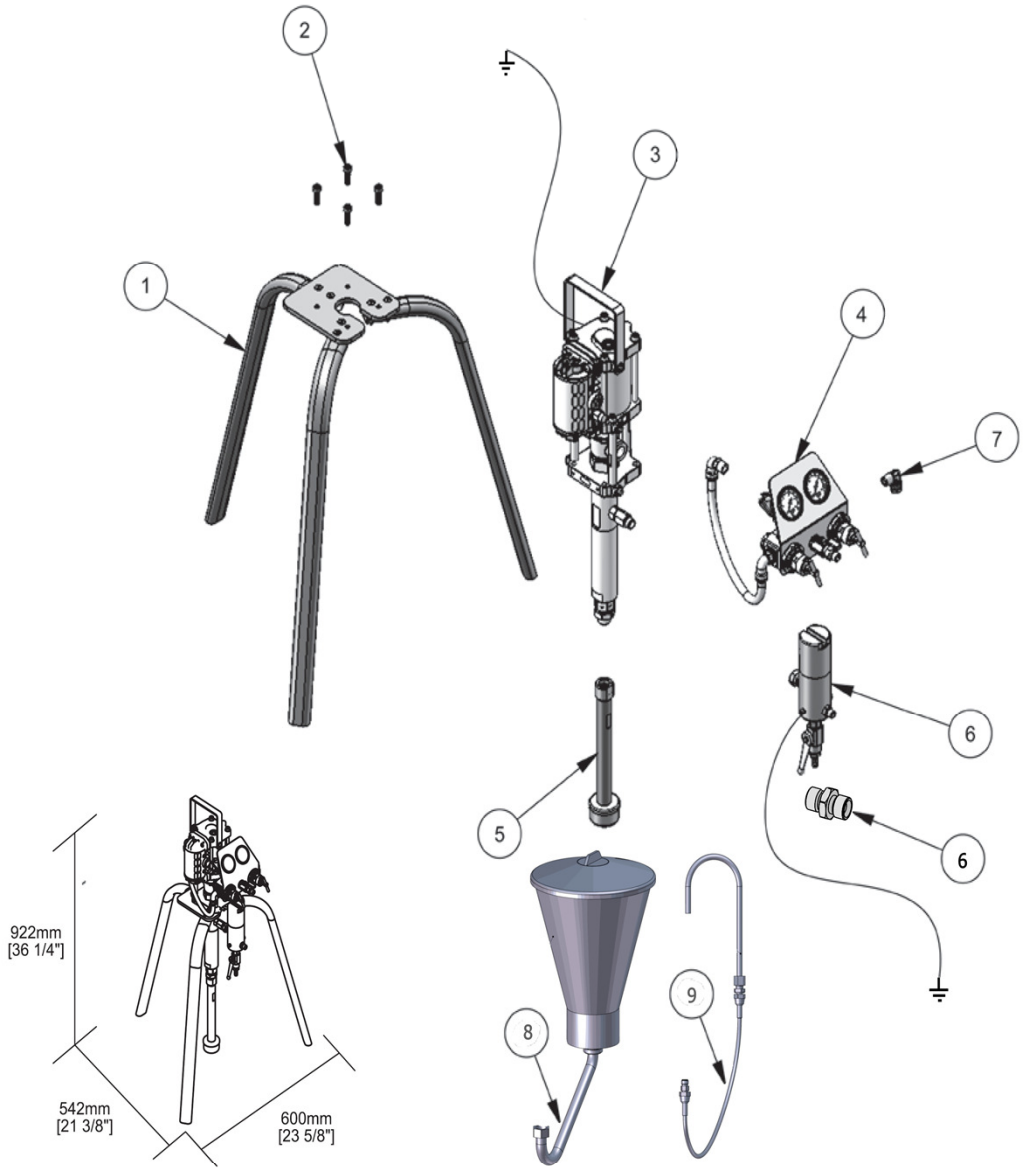
MX432 & MXL432 WALL MOUNTED PUMP



*= OPTIONS

ITEM	PART NUMBER	DESCRIPTION	QTY	
			MX	MXL
1	0115-010179	WALL BRACKET	1	
2	0115-010001	SCREW	4	
3	0115-010030	M8 HEX NUT	4	
4	0115-010031	M8 LOCKWASHER	4	
5	0115-010035	M8 PLAIN WASHER	4	
6	MX432XX	MX432 BARE PUMP	1	-
	MXL432XX	MXL432 BARE PUMP	-	1
7	0115-010180	AIR CONTROL 2 REGULATORS & VALVE	1	-
	0115-010664	AIR CONTROL 2 REGULATORS	-	1
8	0110-009130	HP FILTER (100 mesh)	1	-
	0115-010669	OUTLET FITTING	-	1
9	0114-009164	ELBOW FITTING	1	
10	0115-010236	SUCTION HOSE (20 mesh) 3/4"	1	1
	0115-010696	SUCTION HOSE (20 mesh) 1/2"	-	-
11	0115-010701	HOPPER 6L [1.6 US Gal]	1*	-
12	0114-009629	1/4" RETURN HOSE	1*	-

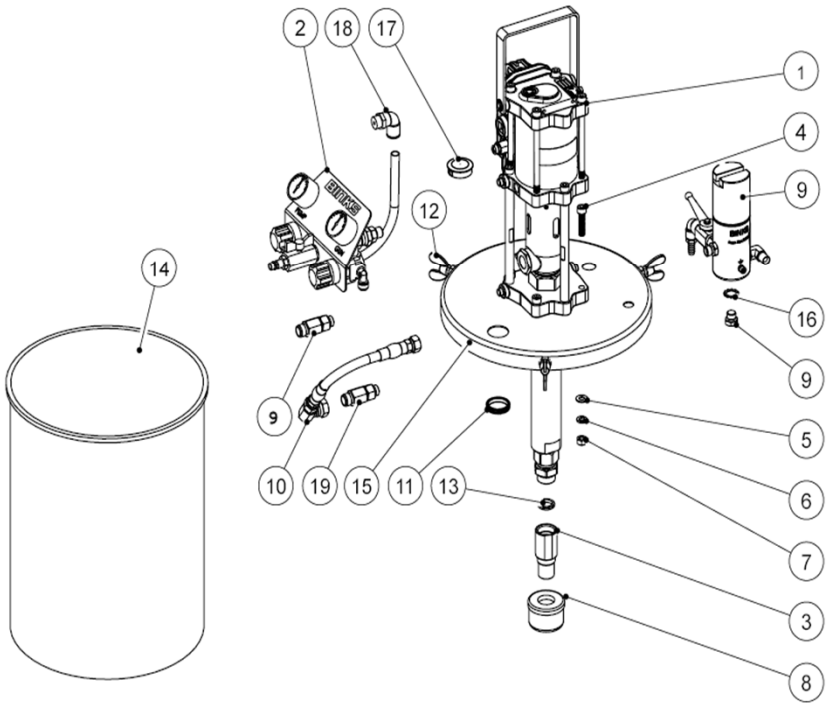
MX432 & MXL432 TRIPOD MOUNTED PUMP



*= OPTIONS

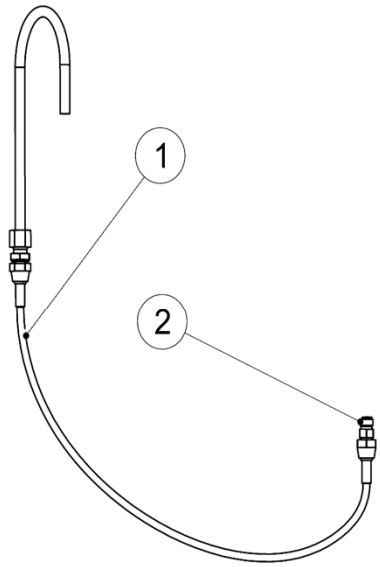
ITEM	PART NUMBER	DESCRIPTION	QTY	
			MX	MXL
1	0115-010100	TRIPOD	1	
2	0115-010227	SCREW	4	
3	MX432XX	MX432 BARE PUMP	1	-
	MXL432XX	MXL432 BARE PUMP	-	1
4	0115-010180	AIR CONTROL 2 REGULATORS & VALVE	1	-
	0115-010664	AIR CONTROL 2 REGULATORS	-	1
5	0115-010670	SUCTION TUBE (50 mesh) 3/4"	1	1
	0115-010699	SUCTION TUBE (50 mesh) 1/2"	-	-
6	0110-009130	HP FILTER (100 mesh)	1	-
	0115-010669	OUTLET FITTING	-	1
7	0114-009164	ELBOW FITTING	1	
8	0115-010701	HOPPER 6L [1.6 US Gal]	1*	-
9	0114-009629	1/4" RETURN HOSE	1*	-

MX 432 & MXL432 PAIL MOUNTED PUMP



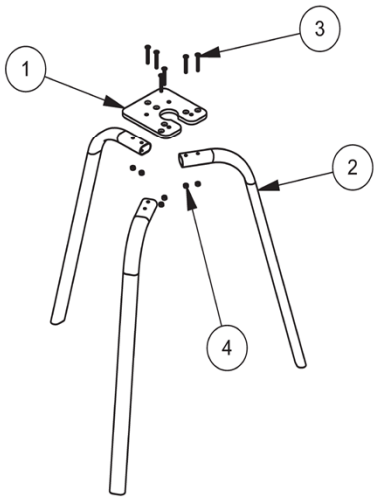
ITEM	PART NUMBER	DESCRIPTION	QTY	
			MX	MXL
1	MX432XX	MX BARE PUMP	1	-
	MXL432XX	MXL432 BARE PUMP	-	1
2	0115-010180	AIR CONTROL 2 REGULATORS & VALVE	1	-
	0115-010664	AIR CONTROL 2 REGULATORS	-	1
3	0115-010201	FILTER ADAPTOR 3/4"	1	-
	0115-010700	FILTER ADAPTOR 1/2"	-	1
4	0115-010320	SCREW M8 X 35MM,SS	4	
5	0115-010035	PLAIN WASHER	4	
6	0115-010321	LOCKWASHER M8 SS	4	
7	0114-014546	NUT M8 SS	4	
8	41-10094	STRAINER 3/4"	1	-
	41-2661	STRAINER 1/2"	-	1
9	0115-010200	FILTER - PAIL MOUNT	1	-
10	0115-010109	FLUID HOSE	1	
11	0115-010110	GROMMET	1	
12	0114-014200	WING BOLT	3	
13	0115-010693	INLET SEAL 3/4"	1	-
	0115-010165	INLET SEAL 1/2"	-	1
14	0114-014445	CONTAINER	1	
15	0115-010108	PAIL COVER	1	
16	0115-010203	LOCKWASHER	1	
17	0115-010337	PLUG	1	
18	0114-009130	ELBOW FITTING	1	
19	0115-010269	CHECK VALVE	1	

ACCESSORIES



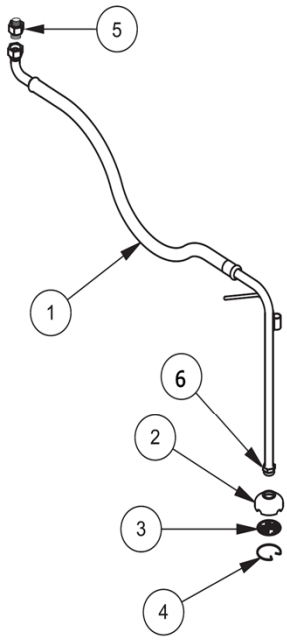
0114-009629
1/4" RETURN HOSE

ITEM	PART NO	DESCRIPTION	QTY
1	0115-010695	DUMP HOSE & TUBE	1
2	0114-016059	FITTING 1/4"	1



0115-010100
TRIPOD

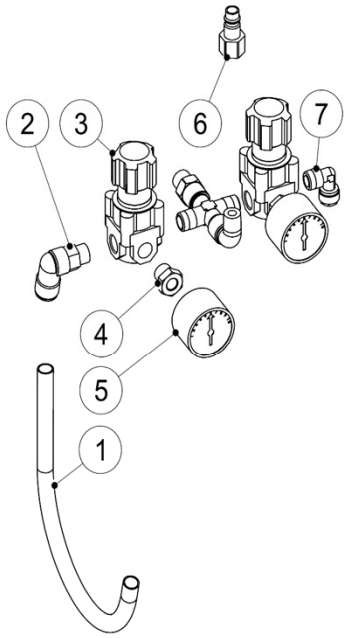
ITEM	PART NO	DESCRIPTION	QTY
1	0115-010101	MOUNTING PLATE	1
2	0115-010210	TRIPOD LEG	3
3	0115-010212	FLAT HEAD SCREW	6
4	0115-010211	LOCKING NUT	6



0115-010236
3/4" SUCTION HOSE (MX)

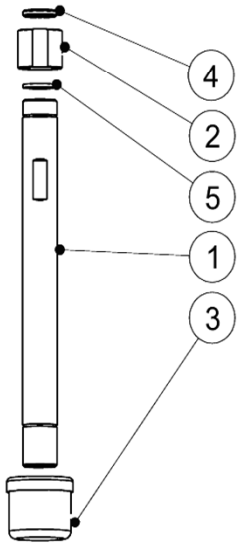
ITEM	PART NO	DESCRIPTION	QTY
1	0114-018506	SUCTION HOSE (DN20)	1
2	0114-013734	FILTER HOUSING	1
3	0114-014112	STRAINER (20 MESH)	1
4	0114-014080	RETAINING RING	1
5	0111-010235	ADAPTER 3/4"M-1/2"F	1
6	0114-016024	ADAPTER	1
ADDITIONAL STRAINERS			
0114-014068		50 Mesh	
0114-014221		70 Mesh	

ACCESSORIES



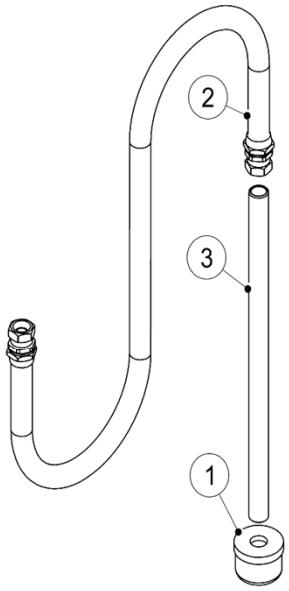
0115-010664
AIR CONTROL 2 REGULATORS (MXL)

ITEM	PART NO	DESCRIPTION	QTY
1	0115-010694	Ø12 NYLON TUBE	0.32
2	0115-010666	12mm OD ELBOW	1
3	ZZ-3073	AIR REGULATOR	2
4	0114-019209	REDUCING BUSH	2
5	GA-382-P	PRESSURE GAUGE	2
6	ZZ-2417	QD STEM 1/4 BSP F	1
7	0115-010667	Ø8 ELBOW	1



0115-010670
3/4" SUCTION TUBE (MX)

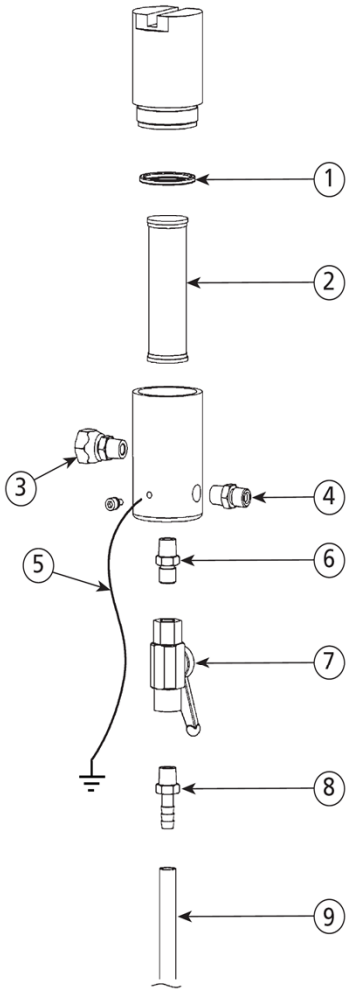
ITEM	PART NO	DESCRIPTION	QTY
1	0115-010105	SUCTION TUBE	1
2	0115-010104	ADAPTER	1
3	0115-010668	3/4" STRAINER 15 MESH	1
4	0115-010693	SEAL	1
5	0114-013834	SEAL	1



0115-010696
1/2" SUCTION HOSE (MXL)

ITEM	PART NO	DESCRIPTION	QTY
1	41-2661	1/2" STRAINER 30 MESH	1
2	0115-010698	1/2" HOSE	1
3	0115-010697	TUBE	1

ACCESSORIES

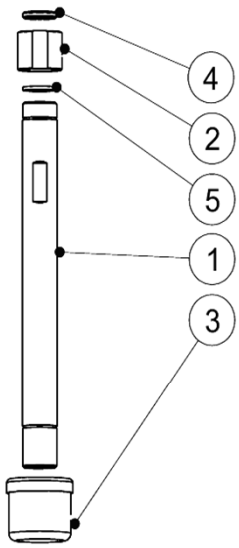


0110-009130
HIGH PRESSURE FILTER

272 BAR Max, 100 MESH

3/8" BSP F INLET, 1/4" NPSM OUTLET

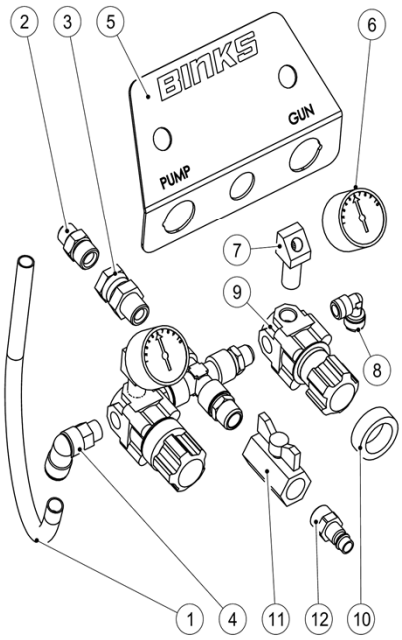
ITEM	PART NO	DESCRIPTION	QTY
1	0114-016061	SEAL	1
2	0110-009132	FILTER 100 MESH	1
3	0110-016058	3/8" BSP SWIVEL	1
4	0114-016059	1/4" NPSM NIPPLE	1
5	0114-011798	GROUND WIRE KIT	1
6	0114-019090	1/4" NIPPLE	1
7	0114-019091	BALL VALVE	1
8	0114-019092	HOSE NIPPLE	1
9	0110-009103	DUMP HOSE	1
ADDITIONAL FILTERS			
0110-009131		50 MESH	
0110-009133		150 MESH	
0110-009134		200 MESH	



0115-010699
1/2" SUCTION TUBE (MXL)

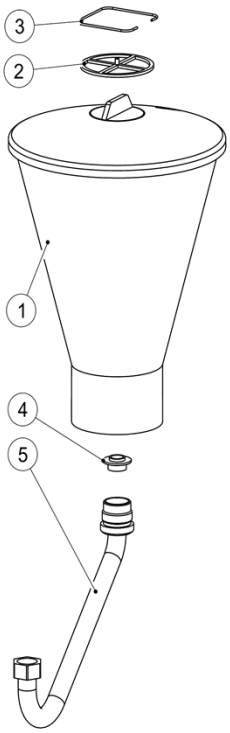
ITEM	PART NO	DESCRIPTION	QTY
1	0115-010702	SUCTION TUBE	1
2	0115-010703	ADAPTER	1
3	41-2661	3/4" STRAINER 15 MESH	1
4	0115-010165	SEAL	1
5	0115-010165	SEAL	1

ACCESSORIES



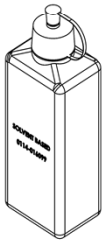
0115-010180
AIR CONTROLS (MX)

ITEM	PART NO	DESCRIPTION	QTY
1	0115-010694	Ø12 TUBE	0.32
2	0115-010157	MOUNTING STUD	1
3	0115-010324	3/8 BSP SWIVEL	1
4	0115-010666	Ø12 ELBOW	1
5	0115-010680	PANEL	1
6	GA-382-P	PRESSURE GAUGE	2
7	DVX-56	GAUGE BLOCK	2
8	0115-010667	Ø8 ELBOW	1
9	ZZ-3073	AIR REGULATOR	2
10	DVX-58	REGULATOR NUT	2
11	0115-010684	3/8" BALL VALVE	1
12	0110-009091	QD STEM 3/8"	1



0115-010701
6L (1.6 US GAL) HOPPER

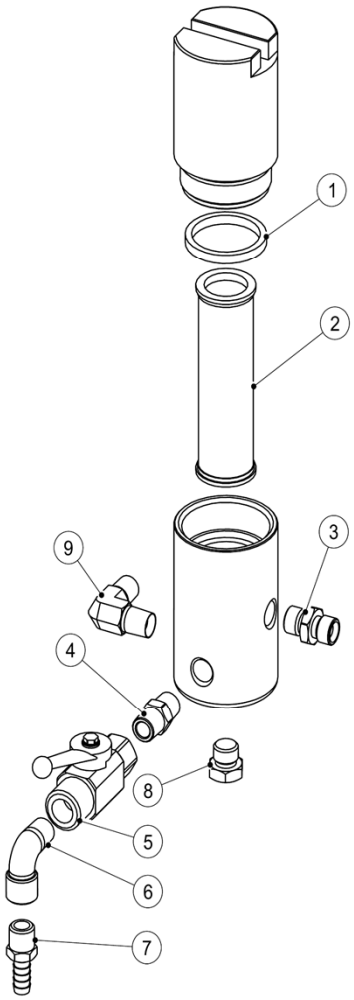
ITEM	PART NO	DESCRIPTION	QTY
1	ZZ-2571	HOPPER	1
2	00-00-0002147	FILTER	1
3	00-00-0002148	TENSION RING	1
4	ZZ-2587	PTFE SEAL	1
5	0114-016041	SUCTION TUBE	1



PUMP LUBRICATION

0114-016099	LUBRICATION-WATER BASED 0.25l
0114-016100	LUBRICATION-SOLVENT BASED 0.25l
0114-014871	LUBRICATION-WATER BASED 0.5l
0114-009433	LUBRICATION-SOLVENT BASED 0.5l

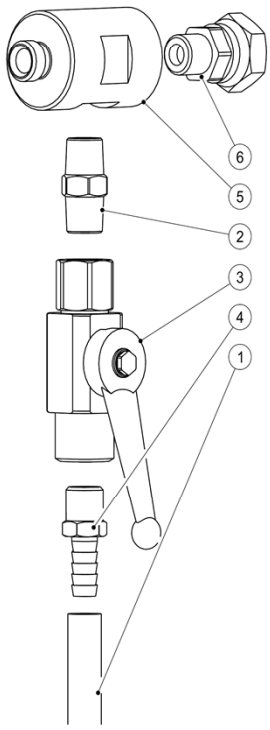
ACCESSORIES



0115-010200
HIGH PRESSURE FILTER (PAIL)

272 BAR Max, 100 MESH
3/8" BSP F INLET, 1/4" NPSM OUTLET

ITEM	PART NO	DESCRIPTION	QTY
1	0114-016061	SEAL	1
2	0110-009132	FILTER SCREEN 100 MESH	1
3	0114-013730	NIPPLE 1/4"NPSM	1
4	0114-019090	NIPPLE	1
5	0114-019091	BALL VALVE	1
6	0114-0200027	ELBOW	1
7	0114-019985	HOSE CONNECTOR	1
8	0115-010600	PLUG	1
9	20-2828	ELBOW	1
10	0114-011798	GROUND WIRE (NOT SHOWN)	1
ADDITIONAL FILTERS			
0110-009131		50 MESH	
0110-009133		150 MESH	
0110-009134		200 MESH	



0115-010672
DUMP VALVE KIT

272 BAR Max
1/4"NPSM F SWIVEL - 1/4" BSP/NPS M

ITEM	PART NO	DESCRIPTION	QTY
1	0110-009103	DUMP HOSE	0.6
2	0114-019090	NIPPLE	1
3	0114-019091	BALL VALVE	1
4	0114-019985	HOSE CONNECTOR	1
5	0115-010673	MANIFOLD	1
6	0115-010674	SWIVEL NUT	1

WARRANTY POLICY

Binks products are covered by Finishing Brands one year materials and workmanship limited warranty. The use of any parts or accessories, from a source other than Finishing Brands, will void all warranties. For specific warranty information please contact the closest Finishing Brands location listed below.

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